

Substitute for form 1449A/PTO

O I P E

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

PATENT & TRADEMARK OFFICE

(Use as many sheets as necessary)

Sheet

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of

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Application Number	10/784,904
Filing Date	February 23, 2004
First Named Inventor	Ma, et al.
Group Art Unit	Unknown 2823
Examiner Name	Unknown W. H. am M. Brinsford
Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
Submission Date	March 31, 2004

class 103

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
9/16	A1	US-6645838	11/11/2003	Talwar, et al.	X
9/16	A2	US-6635588	10/21/2003	Hawryluk, et al.	
9/16	A3	US-6559520	05/06/2003	Matsuki, et al.	
9/16	A4	US-6544900	04/08/2003	Raaijmakers, et al.	
9/16	A5	US-6458718	10/01/2002	Todd	
9/16	A6	US-6410463	06/25/2002	Matsuki	
9/16	A7	US-6387761	05/14/2002	Shih, et al.	
9/16	A8	US-6383956	05/07/2002	Hawryluk, et al.	
9/16	A9	US-6383955	05/07/2002	Matsuki, et al.	
9/16	A10	US-6358829	03/19/2002	Yoon, et al.	
9/16	A11	US-6352945	03/05/2002	Matsuki, et al.	
9/16	A12	US-6348420	02/19/2002	Raaijmakers, et al.	
9/16	A13	US-6303476	10/16/2001	Hawryluk, et al.	
9/16	A14	US-6284686	09/04/2001	Marlor	
9/16	A15	US-6232196	05/15/2001	Raaijmakers, et al.	
9/16	A16	US-6025627	02/15/2000	Forbes, et al.	
9/16	A17	US-5908307	06/01/1999	Talwar, et al.	
9/16	A18	US-5807792	09/15/1998	Ilg, et al.	X

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ² -Number-Kind Code ³ (if known)				
9/16	B1	WO 02/097864	12/05/2002	ASM America, Inc.	X	X
9/16	B2	WO 02/080244	10/10/2002	ASM America, Inc.	/	/
9/16	B3	WO 02/065525	08/22/2002	ASM America, Inc.	/	/
9/16	B4	WO 02/065517	08/22/2002	ASM America, Inc.	/	/
9/16	B5	WO 02/065516	08/22/2002	ASM America, Inc.	X	X

Examiner 9/16 M. BrinsfordDate Considered 29 SEP 05

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO 1 P E INFORMATION DISCLOSURE STATEMENT BY APPLICANT APR 05 2000 PATENTS TRADEMARKS (Use as many sheets as necessary)		Application Number	10/784,904
		Filing Date	February 23, 2004
		First Named Inventor	Ma, et al.
		Group Art Unit	Unknown 2823
		Examiner Name	Unknown William M. Brewster
		Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
Sheet	2	of	5
Submission Date March 31, 2004			

Class 2823

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
9/B	A19	US-5796116	08/18/1998	Nakata, et al.	
9/B	A20	US-5693139	12/02/1997	Nishizawa, et al.	
9/B	A21	US-5674304	10/07/1997	Fukada, et al.	
9/B	A22	US-5527733	06/18/1996	Nishizawa, et al.	
9/B	A23	US-5480818	01/02/1996	Matsumoto, et al.	
9/B	A24	US-5469806	11/28/1995	Mochizuki, et al.	
9/B	A25	US-5374570	12/20/1994	Nasu, et al.	
9/B	A26	US-5372860	12/13/1994	Fehiner, et al.	
9/B	A27	US-5294286	03/15/1994	Nishizawa, et al.	
9/B	A28	US-4834831	05/30/1989	Nishizawa, et al.	
9/B	A29	US-20030082300	05/01/2003	Todd, et al.	
9/B	A30	US-20030045074	03/06/2003	Seibel, et al.	
9/B	A31	US-20030036268	02/20/2003	Brabant, et al.	
9/B	A32	US-20030022528	01/30/2003	Todd	
9/B	A33	US-20020197831	12/26/2002	Todd, et al.	
9/B	A34	US-20020173130	11/21/2002	Pomerede, et al.	
9/B	A35	US-20020173113	11/21/2002	Todd	
9/B	A36	US-20020168868	11/14/2002	Todd	

FOREIGN PATENT DOCUMENTS

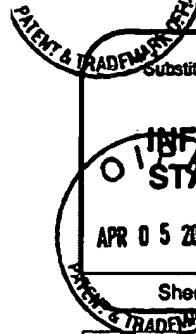
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ² -Number ¹ -Kind Code ³ (if known)				
9/B	B6	WO 02/065508	08/22/2002	ASM America, Inc.	X	X
9/B	B7	WO 02/064853	08/22/2002	ASM America, Inc.		
9/B	B8	WO 01/41544	06/14/2001	ASM America, Inc.		
9/B	B9	WO 98/20524	05/14/1998	Pacific Solar Pty. Limited		
9/B	B10	JP 63-062313 (Abstract Only)	03/18/1988	Fujitsu, Ltd.	X	X

Examiner *William M. Brewster*

Date Considered *29 nov 05*

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APR 05 2004 (use as many sheets as necessary)

Sheet 6

of

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Application Number	10/784,904
Filing Date	February 23, 2004
First Named Inventor	Ma, et al.
Group Art Unit	Unknown 2823
Examiner Name	Unknown William M. Brewster
Attorney Docket Number	AMAT/6830/FEP/PCVD/PJS
Submission Date	March 31, 2004

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
W/B	A37	US-20020093042	07/18/2002	Oh, et al.	X
W/B	A38	US-20020022294	02/21/2002	Hawryluk, et al.	X
W/B	A39	US-20020019148	02/14/2002	Hawryluk, et al.	
W/B	A40	US-20010055672	12/27/2001	Todd	
W/B	A41	US-20010046567	11/29/2001	Matsuki, et al.	
W/B	A42	US-20010024871	09/27/2001	Yagi	
W/B	A43	US-20010020712	09/13/2001	Raaijmakers, et al.	X
	A44	US-			
	A45	US-			
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	A49	US-			
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	A51	US-			
	A52	US-			
	A53	US-			
	A54	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number-Kind Code ⁴ (if known)				
W/B	B11	JP 62-171999 (Abstract Only)	07/28/1987	Nippon Telegr & Teleph Corp.	X	X
W/B	B12	JP 58-098917 (Abstract Only)	06/10/1983	Matsushita Denki Sangyo KK		1
W/B	B13	JP 2001-189312 (Abstract Only)	05/02/2001	Motorola, Inc.		
W/B	B14	JP 2001-111000	04/20/2001			
W/B	B15	JP 05-102189 (Abstract Only)	04/23/1993	Fujitsu, Ltd.	X	X

Examiner William M. Brewster

Date Considered 29 SEP 04

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Sheet

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Application Number	10/784,904
Filing Date	February 23, 2004
First Named Inventor	Ma, et al.
Group Art Unit	Unknown 2823
Examiner Name	Unknown William M. Brewster
Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
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Cited Docs

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		Number-Kind Code ² (if known)			
A55	US-				
A56	US-				
A57	US-				
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ⁴ -Number-Kind Code ⁵ (if known)				
WB	B16	JP 05-047665 (Abstract Only)	02/26/1993	Fujitsu, Ltd.	X	X
WB	B17	JP 03-286522 (Abstract Only)	12/17/1991	NEC Corp.		
WB	B18	JP 02-172895 (Abstract Only)	07/04/1993	NEC Corp		
WB	B19	JP 01-270593 (Abstract Only)	10/27/1989	Fujitsu, Ltd.		
WB	B20	EP 1 150 345	10/31/2001	ASM Japan K.K.	X	X

Examiner *William M. Brewster*Date Considered *29 SEP 05*

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Sheet

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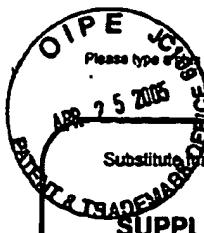
Application Number	10/784,904
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
W/B	1	Choi, et al. "Stability of TiB ₂ as a Diffusion Barrier on Silicon," J. Electrochem. Soc., Vol. 138, No. 10, October 1991	X
W/B	2	Debusschere, et al. "Importance of determining the polysilicon dopant profile during process development," J. Vac. Sci. Technol. B 14(1), Jan/Feb 1996	1
W/B	3	Earles, et al. "Nonmelt Laser Annealing of 5-KeV and 1-KeV Boron-Implanted Silicon," IEEE Transactions on Electron Devices, Vol. 49, No. 7, July 2002	1
W/B	4	Jeong, et al. "Growth and Characterization of Aluminum Oxide Al ₂ O ₃ Thin Films by Plasma-assisted Atomic Layer Controlled Deposition," J. Korean Inst. Met. Mater., Vol. 38, No. 10, Oct. 2000	1
W/B	5	Jeong, et al. "Plasma-assisted Atomic Layer Growth of High-Quality Aluminum Oxide Thin Films," Jpn. J. Appl. Phys. 1, Regul. Pap. Short Notes, Vol. 40, No. 1, Jan 2001	1
W/B	6	Lee, et al. "Cyclic Technique for the Enhancement of Highly Oriented Diamond Film Growth," Thin Solid Films 303 (1997) 264-269	1
W/B	7	Paranjpe, et al. "Atomic Layer Deposition of AlO _x for Thin Film Head Gap Applications," J. Electrochem. Soc., Vol. 148, No. 9, Sep. 2001	1
W/B	8	Talwar, et al. "Junction sealing unsing lasers for thermal annealing," Solid State Technology, Vol. 46, Issue 7, July 2003	1
W/B	9	Yamshita, et al. "Kinetics of Boron Activation by Flash Lamp Annealing," Extend Abstracts of the 2003 International Conference of Solid State Devices and Materials, Tokyo, 2003, pp. 742-743	X
	10		
	11		

Examiner William M. Brewster Date Considered 29 SEP 04

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**SUPPLEMENTAL INFORMATION
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(Use as many sheets as necessary)

Sheet

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of 1

Application Number	10/784,904
Filing Date	February 23, 2004
First Named Inventor	Ma, et al.
Group Art Unit	2812 2823
Examiner Name	Unknown William M. Brewster
Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
Submission Date	April 22, 2005

CLIPS
SMB
CLASS

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W/B	A1	US-6451119 B2		09/17/2002	SNEH, ET AL.	X
W/B	A2	US-6335280 B1		01/01/2002	VAN DER JEUGD	
W/B	A3	US-6291319 B1		09/18/2001	YU, ET AL.	
W/B	A4	US-20050079691 A1		04/14/2005	KIM, ET AL.	
W/B	A5	US-20030189208 A1		10/09/2003	LAW, ET AL.	
W/B	A6	US-20020145168 A1		10/10/2002	BOJARCZUK, JR., ET AL.	X
	A7					

FOREIGN PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
W/B	C1	International Search Report mailed February 22, 2005 for PCT/US2004/030872 (AMAT/8539-PCT)	X
W/B	C2	Kamins, et al. "Kinetics of selective epitaxial deposition of Si _x Ge _{1-x} ", Applied Physics Letters, American Institute of Physics, New York, US, vol. 61, no. 6, 10 August 1992, pp. 669-671	
W/B	C3	Menon, et al. "Loading effect in SiGe layers grown by dichlorosilane- and silane-based epitaxy", Journal of Applied Physics, American Institute of Physics, New York, US, vol. 90, no. 9, 1 November 2001, pp. 4805-4809	
W/B	C4	Sedgwick, et al. "Selective SiGe and heavily As doped Si deposited at low temperature by atmospheric pressure chemical vapor deposition", Journal of Vacuum Science and Technology: Part B, American Institute of Physics, New York, US, vol. 11, no. 3, 1 May 1993, pp. 1124-1128	
W/B	C5	Uchino, et al. "A Raised Source/Drain Technology Using In-situ P-doped SiGe and B-doped Si for 0.1 µm CMOS ULSIs", Electron Devices Meeting, 1997. Technical Digest, International Washington, DC, USA 7-10 Dec. 1997, New York, NY, USA, IEEE, US, 7 December 1997, pp. 478-482	X

Examiner

William M. Brewster

Date Considered 29 SEP 05

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PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO		Application Number	10/784,904
D I P E JUN 20 2005 P A T E N T T R A D E M A R K O F F I C E		Filing Date	February 23, 2004
S U P P L E M E N T A L I N F O R M A T I O N D I S C L O S U R E S T A T E M E N T B Y A P P L I C A N T		First Named Inventor	Ma, et al.
(Use as many sheets as necessary)		Group Art Unit	2842 2823
Sheet 1 of 1		Examiner Name	Unknown W. William M. Brewster
		Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
		Submission Date	June 16, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Number-Kind Code² or ³ or ⁴ or ⁵ or ⁶ or ⁷ or ⁸ or ⁹ or ¹⁰ or ¹¹ or ¹² or ¹³ or ¹⁴ or ¹⁵ or ¹⁶ or ¹⁷ or ¹⁸ or ¹⁹ or ²⁰ or ²¹ or ²² or ²³ or ²⁴ or ²⁵ or ²⁶ or ²⁷ or ²⁸ or ²⁹ or ³⁰ or ³¹ or ³² or ³³ or ³⁴ or ³⁵ or ³⁶ or ³⁷ or ³⁸ or ³⁹ or ⁴⁰ or ⁴¹ or ⁴² or ⁴³ or ⁴⁴ or ⁴⁵ or ⁴⁶ or ⁴⁷ or ⁴⁸ or ⁴⁹ or ⁵⁰ or ⁵¹ or ⁵² or ⁵³ or ⁵⁴ or ⁵⁵ or ⁵⁶ or ⁵⁷ or ⁵⁸ or ⁵⁹ or ⁶⁰ or ⁶¹ or ⁶² or ⁶³ or ⁶⁴ or ⁶⁵ or ⁶⁶ or ⁶⁷ or ⁶⁸ or ⁶⁹ or ⁷⁰ or ⁷¹ or ⁷² or ⁷³ or ⁷⁴ or ⁷⁵ or ⁷⁶ or ⁷⁷ or ⁷⁸ or ⁷⁹ or ⁸⁰ or ⁸¹ or ⁸² or ⁸³ or ⁸⁴ or ⁸⁵ or ⁸⁶ or ⁸⁷ or ⁸⁸ or ⁸⁹ or ⁹⁰ or ⁹¹ or ⁹² or ⁹³ or ⁹⁴ or ⁹⁵ or ⁹⁶ or ⁹⁷ or ⁹⁸ or ⁹⁹ or ¹⁰⁰ or ¹⁰¹ or ¹⁰² or ¹⁰³ or ¹⁰⁴ or ¹⁰⁵ or ¹⁰⁶ or ¹⁰⁷ or ¹⁰⁸ or ¹⁰⁹ or ¹¹⁰ or ¹¹¹ or ¹¹² or ¹¹³ or ¹¹⁴ or ¹¹⁵ or ¹¹⁶ or ¹¹⁷ or ¹¹⁸ or ¹¹⁹ or ¹²⁰ or ¹²¹ or ¹²² or ¹²³ or ¹²⁴ or ¹²⁵ or ¹²⁶ or ¹²⁷ or ¹²⁸ or ¹²⁹ or ¹³⁰ or ¹³¹ or ¹³² or ¹³³ or ¹³⁴ or ¹³⁵ or ¹³⁶ or ¹³⁷ or ¹³⁸ or ¹³⁹ or ¹⁴⁰ or ¹⁴¹ or ¹⁴² or ¹⁴³ or ¹⁴⁴ or ¹⁴⁵ or ¹⁴⁶ or ¹⁴⁷ or ¹⁴⁸ or ¹⁴⁹ or ¹⁵⁰ or ¹⁵¹ or ¹⁵² or ¹⁵³ or ¹⁵⁴ or ¹⁵⁵ or ¹⁵⁶ or ¹⁵⁷ or ¹⁵⁸ or ¹⁵⁹ or ¹⁶⁰ or ¹⁶¹ or ¹⁶² or ¹⁶³ or ¹⁶⁴ or ¹⁶⁵ or ¹⁶⁶ or ¹⁶⁷ or ¹⁶⁸ or ¹⁶⁹ or ¹⁷⁰ or ¹⁷¹ or ¹⁷² or ¹⁷³ or ¹⁷⁴ or ¹⁷⁵ or ¹⁷⁶ or ¹⁷⁷ or ¹⁷⁸ or ¹⁷⁹ or ¹⁸⁰ or ¹⁸¹ or ¹⁸² or ¹⁸³ or ¹⁸⁴ or ¹⁸⁵ or ¹⁸⁶ or ¹⁸⁷ or ¹⁸⁸ or ¹⁸⁹ or ¹⁹⁰ or ¹⁹¹ or ¹⁹² or ¹⁹³ or ¹⁹⁴ or ¹⁹⁵ or ¹⁹⁶ or ¹⁹⁷ or ¹⁹⁸ or ¹⁹⁹ or ²⁰⁰ or ²⁰¹ or ²⁰² or ²⁰³ or ²⁰⁴ or ²⁰⁵ or ²⁰⁶ or ²⁰⁷ or ²⁰⁸ or ²⁰⁹ or ²¹⁰ or ²¹¹ or ²¹² or ²¹³ or ²¹⁴ or ²¹⁵ or ²¹⁶ or ²¹⁷ or ²¹⁸ or ²¹⁹ or ²²⁰ or ²²¹ or ²²² or ²²³ or ²²⁴ or ²²⁵ or ²²⁶ or ²²⁷ or ²²⁸ or ²²⁹ or ²³⁰ or ²³¹ or ²³² or ²³³ or ²³⁴ or ²³⁵ or ²³⁶ or ²³⁷ or ²³⁸ or ²³⁹ or ²⁴⁰ or ²⁴¹ or ²⁴² or ²⁴³ or ²⁴⁴ or ²⁴⁵ or ²⁴⁶ or ²⁴⁷ or ²⁴⁸ or ²⁴⁹ or ²⁵⁰ or ²⁵¹ or ²⁵² or ²⁵³ or ²⁵⁴ or ²⁵⁵ or ²⁵⁶ or ²⁵⁷ or ²⁵⁸ or ²⁵⁹ or ²⁶⁰ or ²⁶¹ or ²⁶² or ²⁶³ or ²⁶⁴ or ²⁶⁵ or ²⁶⁶ or ²⁶⁷ or ²⁶⁸ or ²⁶⁹ or ²⁷⁰ or ²⁷¹ or ²⁷² or ²⁷³ or ²⁷⁴ or ²⁷⁵ or ²⁷⁶ or ²⁷⁷ or ²⁷⁸ or ²⁷⁹ or ²⁸⁰ or ²⁸¹ or ²⁸² or ²⁸³ or ²⁸⁴ or ²⁸⁵ or ²⁸⁶ or ²⁸⁷ or ²⁸⁸ or ²⁸⁹ or ²⁹⁰ or ²⁹¹ or ²⁹² or ²⁹³ or ²⁹⁴ or ²⁹⁵ or ²⁹⁶ or ²⁹⁷ or ²⁹⁸ or ²⁹⁹ or ³⁰⁰ or ³⁰¹ or ³⁰² or ³⁰³ or ³⁰⁴ or ³⁰⁵ or ³⁰⁶ or ³⁰⁷ or ³⁰⁸ or ³⁰⁹ or ³¹⁰ or ³¹¹ or ³¹² or ³¹³ or ³¹⁴ or ³¹⁵ or ³¹⁶ or ³¹⁷ or ³¹⁸ or ³¹⁹ or ³²⁰ or ³²¹ or ³²² or ³²³ or ³²⁴ or ³²⁵ or ³²⁶ or ³²⁷ or ³²⁸ or ³²⁹ or ³³⁰ or ³³¹ or ³³² or ³³³ or ³³⁴ or ³³⁵ or ³³⁶ or ³³⁷ or ³³⁸ or ³³⁹ or ³⁴⁰ or ³⁴¹ or ³⁴² or ³⁴³ or ³⁴⁴ or ³⁴⁵ or ³⁴⁶ or ³⁴⁷ or ³⁴⁸ or ³⁴⁹ or ³⁵⁰ or ³⁵¹ or ³⁵² or ³⁵³ or ³⁵⁴ or ³⁵⁵ or ³⁵⁶ or ³⁵⁷ or ³⁵⁸ or ³⁵⁹ or ³⁶⁰ or ³⁶¹ or ³⁶² or ³⁶³ or ³⁶⁴ or ³⁶⁵ or ³⁶⁶ or ³⁶⁷ or ³⁶⁸ or ³⁶⁹ or ³⁷⁰ or ³⁷¹ or ³⁷² or ³⁷³ or ³⁷⁴ or ³⁷⁵ or ³⁷⁶ or ³⁷⁷ or ³⁷⁸ or ³⁷⁹ or ³⁸⁰ or ³⁸¹ or ³⁸² or ³⁸³ or ³⁸⁴ or ³⁸⁵ or ³⁸⁶ or ³⁸⁷ or ³⁸⁸ or ³⁸⁹ or ³⁹⁰ or ³⁹¹ or ³⁹² or ³⁹³ or ³⁹⁴ or ³⁹⁵ or ³⁹⁶ or ³⁹⁷ or ³⁹⁸ or ³⁹⁹ or ⁴⁰⁰ or ⁴⁰¹ or ⁴⁰² or ⁴⁰³ or ⁴⁰⁴ or ⁴⁰⁵ or ⁴⁰⁶ or ⁴⁰⁷ or ⁴⁰⁸ or ⁴⁰⁹ or ⁴¹⁰ or ⁴¹¹ or ⁴¹² or ⁴¹³ or ⁴¹⁴ or ⁴¹⁵ or ⁴¹⁶ or ⁴¹⁷ or ⁴¹⁸ or ⁴¹⁹ or ⁴²⁰ or ⁴²¹ or ⁴²² or ⁴²³ or ⁴²⁴ or ⁴²⁵ or ⁴²⁶ or ⁴²⁷ or ⁴²⁸ or ⁴²⁹ or ⁴³⁰ or ⁴³¹ or ⁴³² or ⁴³³ or ⁴³⁴ or ⁴³⁵ or ⁴³⁶ or ⁴³⁷ or ⁴³⁸ or ⁴³⁹ or ⁴⁴⁰ or ⁴⁴¹ or ⁴⁴² or ⁴⁴³ or ⁴⁴⁴ or ⁴⁴⁵ or ⁴⁴⁶ or ⁴⁴⁷ or ⁴⁴⁸ or ⁴⁴⁹ or ⁴⁵⁰ or ⁴⁵¹ or ⁴⁵² or ⁴⁵³ or ⁴⁵⁴ or ⁴⁵⁵ or ⁴⁵⁶ or ⁴⁵⁷ or ⁴⁵⁸ or ⁴⁵⁹ or ⁴⁶⁰ or ⁴⁶¹ or ⁴⁶² or ⁴⁶³ or ⁴⁶⁴ or ⁴⁶⁵ or ⁴⁶⁶ or ⁴⁶⁷ or ⁴⁶⁸ or ⁴⁶⁹ or ⁴⁷⁰ or ⁴⁷¹ or ⁴⁷² or ⁴⁷³ or ⁴⁷⁴ or ⁴⁷⁵ or ⁴⁷⁶ or ⁴⁷⁷ or ⁴⁷⁸ or ⁴⁷⁹ or ⁴⁸⁰ or ⁴⁸¹ or ⁴⁸² or ⁴⁸³ or ⁴⁸⁴ or ⁴⁸⁵ or ⁴⁸⁶ or ⁴⁸⁷ or ⁴⁸⁸ or ⁴⁸⁹ or ⁴⁹⁰ or ⁴⁹¹ or ⁴⁹² or ⁴⁹³ or ⁴⁹⁴ or ⁴⁹⁵ or ⁴⁹⁶ or ⁴⁹⁷ or ⁴⁹⁸ or ⁴⁹⁹ or ⁵⁰⁰ or ⁵⁰¹ or ⁵⁰² or ⁵⁰³ or ⁵⁰⁴ or ⁵⁰⁵ or ⁵⁰⁶ or ⁵⁰⁷ or ⁵⁰⁸ or ⁵⁰⁹ or ⁵¹⁰ or ⁵¹¹ or ⁵¹² or ⁵¹³ or ⁵¹⁴ or ⁵¹⁵ or ⁵¹⁶ or ⁵¹⁷ or ⁵¹⁸ or ⁵¹⁹ or ⁵²⁰ or ⁵²¹ or ⁵²² or ⁵²³ or ⁵²⁴ or ⁵²⁵ or ⁵²⁶ or ⁵²⁷ or ⁵²⁸ or ⁵²⁹ or ⁵³⁰ or ⁵³¹ or ⁵³² or ⁵³³ or ⁵³⁴ or ⁵³⁵ or ⁵³⁶ or ⁵³⁷ or ⁵³⁸ or ⁵³⁹ or ⁵⁴⁰ or ⁵⁴¹ or ⁵⁴² or ⁵⁴³ or ⁵⁴⁴ or ⁵⁴⁵ or ⁵⁴⁶ or ⁵⁴⁷ or ⁵⁴⁸ or ⁵⁴⁹ or ⁵⁵⁰ or ⁵⁵¹ or ⁵⁵² or ⁵⁵³ or ⁵⁵⁴ or ⁵⁵⁵ or ⁵⁵⁶ or ⁵⁵⁷ or ⁵⁵⁸ or ⁵⁵⁹ or ⁵⁶⁰ or ⁵⁶¹ or ⁵⁶² or ⁵⁶³ or ⁵⁶⁴ or ⁵⁶⁵ or ⁵⁶⁶ or ⁵⁶⁷ or ⁵⁶⁸ or ⁵⁶⁹ or ⁵⁷⁰ or ⁵⁷¹ or ⁵⁷² or ⁵⁷³ or ⁵⁷⁴ or ⁵⁷⁵ or ⁵⁷⁶ or ⁵⁷⁷ or ⁵⁷⁸ or ⁵⁷⁹ or ⁵⁸⁰ or ⁵⁸¹ or ⁵⁸² or ⁵⁸³ or ⁵⁸⁴ or ⁵⁸⁵ or ⁵⁸⁶ or ⁵⁸⁷ or ⁵⁸⁸ or ⁵⁸⁹ or ⁵⁹⁰ or ⁵⁹¹ or ⁵⁹² or ⁵⁹³ or ⁵⁹⁴ or ⁵⁹⁵ or ⁵⁹⁶ or ⁵⁹⁷ or ⁵⁹⁸ or ⁵⁹⁹ or ⁶⁰⁰ or ⁶⁰¹ or ⁶⁰² or ⁶⁰³ or ⁶⁰⁴ or ⁶⁰⁵ or ⁶⁰⁶ or ⁶⁰⁷ or ⁶⁰⁸ or ⁶⁰⁹ or ⁶¹⁰ or ⁶¹¹ or ⁶¹² or ⁶¹³ or ⁶¹⁴ or ⁶¹⁵ or ⁶¹⁶ or ⁶¹⁷ or ⁶¹⁸ or ⁶¹⁹ or ⁶²⁰ or ⁶²¹ or ⁶²² or ⁶²³ or ⁶²⁴ or ⁶²⁵ or ⁶²⁶ or ⁶²⁷ or ⁶²⁸ or ⁶²⁹ or ⁶³⁰ or ⁶³¹ or ⁶³² or ⁶³³ or ⁶³⁴ or ⁶³⁵ or ⁶³⁶ or ⁶³⁷ or ⁶³⁸ or ⁶³⁹ or ⁶⁴⁰ or ⁶⁴¹ or ⁶⁴² or ⁶⁴³ or ⁶⁴⁴ or ⁶⁴⁵ or ⁶⁴⁶ or ⁶⁴⁷ or ⁶⁴⁸ or ⁶⁴⁹ or ⁶⁵⁰ or ⁶⁵¹ or ⁶⁵² or ⁶⁵³ or ⁶⁵⁴ or ⁶⁵⁵ or ⁶⁵⁶ or ⁶⁵⁷ or ⁶⁵⁸ or ⁶⁵⁹ or ⁶⁶⁰ or ⁶⁶¹ or ⁶⁶² or ⁶⁶³ or ⁶⁶⁴ or ⁶⁶⁵ or ⁶⁶⁶ or ⁶⁶⁷ or <sup						

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Substitute for form 1449A/PTO		Application Number	10/784,904
SUPPLEMENTAL INFORMATION		Filing Date	February 23, 2004
DISCLOSURE STATEMENT BY		First Named Inventor	Ma, et al.
APPLICANT		Group Art Unit	2018-2823
(Use as many sheets as necessary)		Examiner Name	William M. Brewster
Sheet 1 of 1		Attorney Docket Number	AMAT/8830/FEP/PCVD/PJS
		Submission Date	July 22, 2005

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
WB	A1	US-6100171	08/08/2000	Ishida	X
WB	A2	US-5966605	10/12/1999	Ishida	X
WB	A3	US-5399508	03/21/1995	Tsukamoto	X
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FOREIGN PATENT DOCUMENTS					
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		Country Code ² -Number ⁴ -Kind Code ³ (if known)			
WB	B1	WO 01/71787 A1	09/27/2001	Varian Semiconductor Equipment Associates, Inc.	X
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	B3				
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WB	C1	International Search Report dated June 23, 2005 regarding International Application No. PCT/US2005/004318 (AMAT/8830-PCT)			X
WB	C2	Goto, et al. "Ultra-Low Contact Resistance for Deca-nm MOSFETs by Laser Annealing", Electron Devices Meeting, 1999. IEDM Technical Digest. International Washington, DC, USA 5-8 Dec. 1999, Piscataway, NJ, USA, IEEE, US, 5 December 1999 (1999-12-02), pp. 931-933, XP010372208			X

Examiner William M. Brewster Date Considered 29 SEP 05

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